

CLAIMS:

1. A flexible probe for sealing a pipe or applying a patch, the probe comprising an inflatable bladder and camera assembled in series at a distal end of a cable and hose, the cable and hose being used to feed the probe down a pipe in a feed direction and retract the probe in the opposite direction, the inflatable bladder comprising an elongate annular bladder surrounding the cable with the camera at the head, the camera providing an advance view in the feed direction, the probe being flexible and able to pass down a pipe and deform to pass around corners in the pipe while carrying a tubular patch and upon inflation seal or patch the pipe.
2. A probe according to claim 1 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially.
3. A probe according to claim 1 wherein the inflatable bladder has spaced sealing ribs distributed along its length.
4. A probe according to claim 1 wherein the bladder is designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.
5. A probe according to claim 1 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially, the inflatable bladder having spaced sealing ribs distributed along its length.
6. A probe according to claim 1 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to

expand medially, the bladder being designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

7. A probe according to claim 1 wherein the inflatable bladder has spaced sealing ribs distributed along its length, the bladder being designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

8. A pipe test probe comprising an inflatable seal and camera assembled in series at a distal end of a cable and hose used to feed the probe down a pipe in a feed direction and retract the probe in the opposite direction, the inflatable seal comprising an elongate annular bladder surrounding the cable with the camera at the head and providing an advance view in the feed direction, the probe being flexible and able to pass down a pipe and deform to pass around corners in the pipe and upon inflation to seal the pipe for static test purposes.

9. A probe according to claim 8 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially.

10. A probe according to claim 8 wherein the inflatable bladder has spaced sealing ribs distributed along its length.

11. A probe according to claim 8 wherein the bladder is designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

12. A probe according to claim 8 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to

expand medially, the inflatable bladder having spaced sealing ribs distributed along its length.

13. A probe according to claim 8 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially, the bladder being designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

14. A probe according to claim 8 wherein the inflatable bladder has spaced sealing ribs distributed along its length, the bladder being designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

15. A patch applicator probe for remote patching of damaged pipes, the probe comprising an inflatable patch applicator and camera assembled in series at a distal end of a cable and hose used to feed the probe down a pipe in a feed direction and retract the probe in the opposite direction, the inflatable patch applicator comprising an elongate annular bladder surrounding the cable with the camera at the head, the camera providing an advance view in the feed direction, a tubular open ended adhesive patch surrounding the bladder and upon inflation of the bladder in situ to a predetermined pressure the bladder applies the patch and bulges out the open ends of the patch to dress the ends of the patch.

16. A probe according to claim 15 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially.

17. A probe according to claim 15 wherein the inflatable bladder has spaced sealing ribs distributed along its length.

18. A probe according to claim 15 wherein the bladder is designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

19. A probe according to claim 15 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially, the inflatable bladder having spaced sealing ribs distributed along its length.

20. A probe according to claim 15 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially, the bladder being designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

21. A probe according to claim 15 wherein the inflatable bladder has spaced sealing ribs distributed along its length, the bladder being designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

22. A system for in situ remote patching of pipes, the system comprising a flexible inflatable patch applicator probe and an adhesive applicator jig for onsite application of adhesive to the probe, the probe having a inflatable bladder and camera located at the distal end of a flexible feed cable, the jig comprising a hollow former sandwiched between the probe and patch to stabilise same while the

adhesive is being applied and then being slidably removable before the patch and probe are fed into a pipe.

23. A system according to claim 22 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially.

24. A system according to claim 22 wherein the inflatable bladder has spaced sealing ribs distributed along its length.

25. A system according to claim 22 wherein the bladder is designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

26. A system according to claim 22 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially, the inflatable bladder having spaced sealing ribs distributed along its length.

27. A system according to claim 22 wherein the inflatable bladder comprises a cylindrical elastic bladder sealed airtight at opposite ends and being biased to expand medially, the bladder being designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.

28. A system according to claim 22 wherein the inflatable bladder has spaced sealing ribs distributed along its length, the bladder being designed to suit a particular pipe size and in use is inflated to a predetermined pressure and size at that pressure.